

**SERVICE PREQUALIFICATION CHANGES AS OF**  
**April 1, 2007**

**C & T Services**

**Aggregate Inspection & Testing**

Changed title to Aggregate Testing

Removed all requirements for the FieldManager Suite of Software

**Asbestos Investigations**

No changes made

**Bituminous Pavement Inspection**

Changed all references to the FieldManager Suite of Software to the Fieldbook module of the FieldManager suite of software

**Bituminous Plant Inspection & Testing**

Removed all requirements for the FieldManager Suite of Software

**Bridge Construction Engineering**

Staff Education and Experience now reads, *“Each project manager must have a minimum of five (5) years experience on road construction projects with at least two (2) years experience as a project engineer with full responsibility for project administration.”*

**Bridge Load Rating Analysis**

No changes made

**Bridge Painting Inspection**

No changes made

**Bridge Project Scoping**

Staff Education and Experience, PM’s experience required 5 years in design for rehabilitation of bridges with 2 years bridge design experience in MI. Now reads, *“The consultant must assign a \*Registered Professional Engineer, licensed in Michigan, as project manager. This person must have five (5) years experience in the design for rehabilitation of bridges and must be familiar with MDOT bridge repair methods and techniques.”*

**Bridge Safety Inspection**

No changes made

**Capital Preventative Maintenance**

No changes made

**Construction Staking (NEW)**

Survey Specific QA/QC requirement was removed

Changed “Leveling equipment capable of meeting Third Order Class 1 specifications” to, “Leveling equipment capable of meeting a standard deviation of +/- 2.0 mm per KM “

**Density Inspection & Testing**

Changed all references to the FieldManager Suite of Software to the Fieldbook module of the FieldManager suite of software

**Engineering Assistance**

No changes made

**Geotechnical Engineering Services**

No changes made

**Portland Cement Concrete Inspection & Testing**

Changed all references to the FieldManager Suite of Software to the Fieldbook module of the FieldManager suite of software

**Remediation**

No changes made

**Removal of Underground Storage Tanks**

Standard Operating Procedures requirement moved from Consultant Experience to equipment requirement

Removed the following equipment requirements

- \* Static water level meter
- \* pH meter
- \* Conductivity meter

**Road Construction Engineering**

Staff Education and Experience now reads, “*Each project manager must have a minimum of five (5) years experience on road construction projects with at least two (2) years experience as a project engineer with full responsibility for project administration.*”

**Site Investigation**

No changes made

**Technical Assistance**

No changes made

**Traffic & Safety Inspection Services**

No changes made

## **Underwater Bridge Inspection**

No changes made

## **DESIGN**

### **Building and Structure Design**

Reduced the requirement from two (2) or more licensed architects in MI to one (1)  
Under Staff Education and Experience and Consultant Experience increased time frame to five (5) years for performing three (3) projects...

### **Complex Bridges**

No changes made

### **Complex Urban Freeway Design (NEW)**

Professional registrations reduced from three (3) to two (2)

### **Freeway Lighting**

Professional registrations reduced from three (3) to two (2)  
Deleted requirement for tunnel design in Consultant Experience  
Deleted requirement for under bridge freeway lighting design (**NEW**)  
Reduced number of roadway lighting design projects and freeway lighting projects from five (5) to three (3)  
Increased time frame from two (2) years to five (5) years in Consultant Experience  
Eliminated Michigan requirement in Consultant Experience

### **Hydraulics**

Deleted transcript requirement from Staff Education and Experience  
Changed the requirement from the project manager to have hydraulic specific training to the lead Hydraulic Engineer  
Changed the number of project requirements in Consultant Experience from, “Completed 10 projects in last 10 years” to “Five (5) projects in last five (5) years”  
Continue to require two (2) projects to have hydraulic reviews by MDEQ  
Retained the optional requirement for Eagle Point Software

### **Hydraulic Surveys**

Removed survey specific QA/QC requirement

### **Intelligent Transportation Systems**

No changes made

### **Landscape Architecture**

In Staff Education and Experience and Consultant Experience increased time frame from two (2) years to five (5) years for completing three (3) projects  
Reduced RLA requirement from two (2) to one (1)

### **Moveable Span Bridges**

No changes made

**Municipal Utilities**

No changes made

**Photogrammetric Control Surveys**

Removed survey specific QA/QC requirement

**Photogrammetry**

Changed number of required projects from 15 to 5 for Staff Education and Experience, but added w/in 5 years

Changed Consultant Experience from 10 projects to 5

**Project Development Studies**

No changes made

**Pump Station Design**

Added criteria in lieu of Building and Structure Design approval for prequal.

**Railroad Bridges**

No changes made

**Right-of-Way Surveys**

Removed survey specific QA/QC requirement

**Road Design Surveys**

Removed survey specific QA/QC requirement

**Roads and Streets**

No changes made

**Roadway Rehabilitation & Rural Freeways (NEW)**

Professional registrations reduced from three (3) to two (2)

**Short & Medium Span Bridges**

No changes made

**Specialty Walls/Slopes**

No changes made

**Structure Surveys**

Removed survey specific QA/QC requirement

**Value Engineering**

No changes made

### **Wetland Design**

Removed the Professional Wetland Scientist Certification requirement  
Staff Education and Experience and Consultant Experience project timeframes have been increased from two (2) to five (5) years

**\*\*In Consultant Experience requirement that read “5 projects in MI that are recognized by the DEQ as successful and meeting the pre-plan mitigation requirements”, was changed to “Two (2) projects in Michigan that can be demonstrated to meet the pre-plan mitigation requirements.”**

## **PLANNING**

### **Botanical and Endangered Plant Assessment**

Removed classification specific QA/QC

Added permit requirement for a valid MI Threatened/Endangered Species permit (**NEW**)

### **Environmental Assessment & Impact Statements - Surface Transportation**

Removed classification specific QA/QC

Made sample reports only necessary for newly prequalified or for those that have experienced a staffing change, they must be submitted on CD.

### **Geographic Information Systems**

No change made

### **Historic Archeology**

Removed classification specific QA/QC

Made sample reports only necessary for newly prequalified or for those that have experienced a staffing change, they must be submitted on CD.

### **Noise Assessment/Abatement**

No change made

### **Prehistoric Archeology**

Removed classification specific QA/QC

Made sample reports only necessary for newly prequalified or for those that have experienced a staffing change, they must be submitted on CD.

### **Reconnaissance/Intensive Level Survey**

Removed classification specific QA/QC

Made sample reports only necessary for newly prequalified or for those that have experienced a staffing change, they must be submitted on CD.

### **Wetland Assessment**

Removed classification specific QA/QC

Made sample reports only necessary for newly prequalified or for those that have experienced a staffing change, they must be submitted on CD.

## **Wildlife and Endangered Species Assess.**

Removed classification specific QA/QC

## **REAL ESTATE**

### **Outdoor Advertising**

Formerly titled Inspection

### **Subsurface Utility Engineering (NEW)**

Removed Michigan Professional Engineering License requirement for key staff engineers

Added One (1) or more engineers licensed in MI

Removed routine safety equipment requirement

#### **Staff Education and Experience requirement now list:**

- \*One (1) Michigan Professional Engineer with a minimum of five (5) years of experience in SUE.
- \*Provide resumes with a list of SUE projects for each staff member:
  - List only projects completed in the past eight (8) years.
  - Provide all pertinent information about the projects listed. The name of the client, project description, location, construction cost, and the employee's role on the project. Also, provide the name and phone number or the client's representative. This person may be contacted to provide a reference.
- Knowledge of ASCE standard "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data".
- Knowledge of MDOT design standards for depiction of utility information.

#### **Consultant Experience now list:**

\*List a minimum three (3) projects completed for MDOT or ten (10) projects completed for others in the last eight (8) years and relate the information below to each project:

- Utility quality levels performed, length of designating (quality level B), number of excavated test holes (quality level A), data management techniques, participation in project's utility coordination, unique or special project conditions.

### **Utility Coordination (NEW)**

Removed Michigan Professional Engineering License requirement for key staff engineers

Added One (1) or more engineers licensed in MI

Removed equipment requirement for information regarding any sub contracted services

#### **Staff Education and Experience requirement now list:**

- \*One (1) Michigan Professional Engineer with a minimum of five (5) years of experience in Utility Coordination.
- \*Provide resumes with a list of Utility Coordination projects for each staff member:
  - List only projects completed in the past eight (8) years.

- Provide all pertinent information about the projects listed. The name of the client, project description, location, construction cost, and the employee's role on the project. Also, provide the name and phone number or the client's representative. This person may be contacted to provide a reference.
  - Knowledge of AASHTO guidelines and best practices related to utility coordination.

**Consultant Experience now list:**

\*List a minimum of three (3) projects completed for MDOT or five (5) projects completed for others in the last eight (8) years and relate the information below to each project:

- Identifying utilities within project limits, coordination methods during the projects design phase, utility conflict resolution processes and methodologies, identifying reimbursable utility relocations, tracking tools used, relocation plan reviews, preparation of contract documents such as the Notice to Bidder for Utility Coordination, examples of design changes to avoid a utility relocation.

## TRAFFIC & SAFETY

**Maintaining Traffic Plans & Provisions**

Removed one (1) page maximum resume requirement

**Pavement Marking Plans**

Removed one (1) page maximum resume requirement

**Consultant Experience now lists:**

Changed one (1) or two (2) samples of pavement marking plans to two (2)

Provide two examples showing both longitudinal lines and special markings. *One (1) example must be freeway and one (1) example must be non-freeway.* These plans should include, but not be limited to the following:

- *Pavement marking layouts for two (2) rural freeway interchanges*
- *Pavement marking layouts for two (2) urban freeway interchanges*
- *Pavement marking layouts for two (2) rural non-freeway intersections*
- *Pavement marking layouts for two (2) urban non-freeway intersections*

*\*Added*

**Perm. Non-Freeway Traffic Signing Plans (NEW)**

Removed one (1) page maximum resume requirement

Added equipment requirement of documentation listing hardware and software used (i.e., SignCad)

Added Non-Freeway Signing Plans requirements for Consultant Experience:

- Sign Type (Regulatory, Warning, and Guide signs)
- Sign Material type and Quantities
- Sign Support type and Quantities
- Sign Location
- Special provisions if applicable
- Reference to appropriate Standard Specifications for Construction

- “Special Provisions for Maintaining Traffic” if non-Freeway Traffic Signing is referenced

### **Permanent Freeway Traffic Signing Plans (NEW)**

Require SignCad and MTSIS software

Removed one (1) page maximum resume requirement

Added to Consultant Experience: *Other related documents are - Freeway Signing Design, Placement and Application Guidelines; Michigan Standard Highway Signs Manual (English); Guidelines for Signing on State Trunkline Highways; Traffic and Safety Sign Support Standards and Special Details; and The Manual of Traffic and Safety Notes*

Freeway Signing Plans requirements:

- Sign Type (Regulatory, Warning, and Guide signs)
- Sign Material type and Quantities
- Sign Support type and Quantities
- Sign Location
- Special provisions if applicable
- Reference to appropriate Standard Specifications for Construction
- “Special Provisions for Maintaining Traffic” if Freeway Traffic Signing is referenced
- Signing layouts for two (2) rural interchanges
- Signing layouts for two (2) urban interchanges
- A Minimum of two (2) Sign Truss Layouts
- A Minimum of two (2) Sign Cantilever Layouts

### **Safety Studies**

Removed one (1) page maximum resume requirement

### **Traffic Operations Studies**

Removed one (1) page maximum resume requirement

### **Traffic Signal Design**

Removed one (1) page maximum resume requirement

### **Traffic Signal Operations**

Removed one (1) page maximum resume requirement

Consultant Experience added “Submit one corridor timing analysis sample *\*containing a minimum of five (5) traffic signals...*



**Professional Registration requirement changes from one (1) to two (2) effective  
October 1, 2008**

Road Construction Engineering  
Bridge Construction Engineering  
Capital Preventative Maintenance  
Project Development Studies  
Right-of-Way Surveys  
Road Design Surveys  
Structure Surveys  
Hydraulic Surveys  
Photogrammetric Control Surveys